

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions of claims in the application.

1. (Currently amended): A $12\text{CaO} \cdot 7\text{Al}_2\text{O}_3$ compound, which incorporates a negative hydrogen ion (H^- , H^{2-} , H_2^-) at a concentration of $1 \times 10^{18} \text{ cm}^{-3}$ or more, which has an electronic conductance equivalent to an electric conductivity of 10^{-5} Scm^{-1} or more.

2. (Currently amended): A $12\text{SrO} \cdot 7\text{Al}_2\text{O}_3$ compound, which incorporates a negative hydrogen ion (H^- , H^{2-} , H_2^-) at a concentration of $1 \times 10^{18} \text{ cm}^{-3}$ or more, which has an electronic conductance equivalent to an electric conductivity of 10^{-5} Scm^{-1} or more.

3. (Currently amended): A mixed crystal compound of $12\text{CaO} \cdot 7\text{Al}_2\text{O}_3$ and $12\text{SrO} \cdot 7\text{Al}_2\text{O}_3$, which incorporates a negative hydrogen ion (H^- , H^{2-} , H_2^-) at a concentration of $1 \times 10^{18} \text{ cm}^{-3}$ or more, which has an electronic conductance equivalent to an electric conductivity of 10^{-5} Scm^{-1} or more.

4-6. (Cancelled).

7. (Currently amended): A method of producing the compound as defined in either one of claims 1 to 3, comprising subjecting either one selected from the group consisting of a $12\text{CaO} \cdot 7\text{Al}_2\text{O}_3$ compound, a $12\text{SrO} \cdot 7\text{Al}_2\text{O}_3$ compound, and a mixed crystal compound of $12\text{CaO} \cdot$

$7\text{Al}_2\text{O}_3$ and $12\text{SrO} \cdot 7\text{Al}_2\text{O}_3$ to a heat treatment at a temperature of 800°C or more in an atmosphere containing 1000 ppm or more of hydrogen, to thereby clathrate a negative hydrogen ion (H^- , H^{2-} , H_2^-) into said selected compound at a concentration of $1 \times 10^{18} \text{ cm}^{-3}$ or more, and further irradiate said selected compound with ultraviolet ray or X-ray.

8. (Currently amended): A transparent electrode or wiring, which is formed using the compound as defined in ~~claim 4~~ either one of claims 1 to 3.

9. (Currently amended): An optically writable and erasable 3-dimensional electronic circuit and 3-dimensional storage element, which is formed using the compound as defined in ~~claim 5~~ either one of claims 1 to 3.

10. (Currently amended): A negative hydrogen ion (H^- , H^{2-} , H_2^-)-conducting solid-electrolyte, which is formed using the compound as defined in ~~claim 6~~ either one of claims 1 to 3.

11. (Cancelled).